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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,287	08/11/2006	Shinya Mizone	2006_1255A	7169
	7590 01/14/200 , LIND & PONACK I		EXAMINER	
2033 K. STREET, NW			HAUTH, GALEN H	
SUITE 800 WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			1791	
			MAIL DATE	DELIVERY MODE
			01/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/589,287	MIZONE ET AL.
Office Action Summary	Examiner	Art Unit
	GALEN HAUTH	1791
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 29 2a) ☐ This action is FINAL . 2b) ☐ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pre	
Disposition of Claims		
4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) 5-10 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers 9) The specification is objected to by the Examination of the drawing(s) filed on is/are: a) and applicant may not request that any objection to the	wn from consideration. /or election requirement. ner. ccepted or b) □ objected to by the	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ection is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asada (JP 08-311387, NPL Machine translation provided for citation) in view of Delgado (PN 5045569).
 - a. With regards to claim 1, Asada teaches forming an ink for printing in which a water in oil type emulsion is formed with a styrene polymer (abstract) resin as the hydrophobic polymer (¶ 0009) and acrylic acid resin or sodium polyacrylate (¶ 0017) as the hydrophilic portion. Asada does not teach the use of ammonium acrylate.
 - b. Delgado teaches forming water in oil type emulsions with acrylates (col 4 ln 22-30). Delgado teaches that suitable monomers include ammonium acrylate,

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sodium acrylate, sodium methacrylate, and other acrylates (col 5 ln 20-25). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use ammonium acrylate in place of the acrylate of Asada as both compounds present ionic acrylate compositions in the solution as taught by Delgado.

- c. With regards to claim 2, Asada teaches using water (abstract).
- d. With regards to claim 3, Asada teaches using a pH of 6-8 (¶ 0021). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a pH of 6.5-8 in optimization of the range taught by Asada.
- e. With regards to claim 4, Asada teaches using 1.8 wt % phenol resin (abstract) and 0.5-15 wt % of acrylate (¶ 0017). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use 2-4 wt % acrylate in the process of Asada through optimization of the wt % of the acrylate as this range lies completely within the taught range of Asada.

Response to Arguments

4. Applicant's arguments, see response, filed 10/29/2008, with respect to the rejection(s) of claim(s) 1-4 under 102(b) and 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Asada in view of Delgado above.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GALEN HAUTH whose telephone number is (571)270-5516. The examiner can normally be reached on Monday to Thursday 8:30am-5:00pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on (571)272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GHH/

/Christina Johnson/ Supervisory Patent Examiner, Art Unit 1791